

ForceMatch® HD

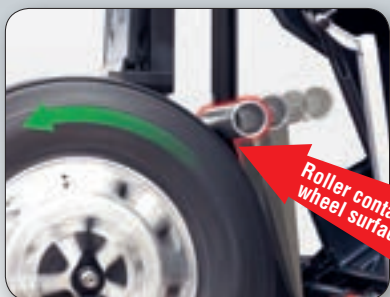
The world's #1 heavy-duty diagnostic balancer



ForceMatch® HD balancer quickly measures runout with every balance

PATENTED

Load Roller

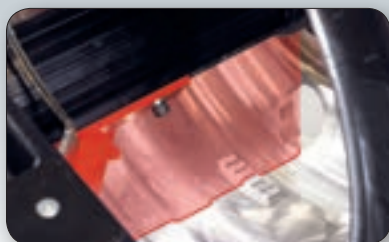


Roller contacts wheel surface

- ✓ Roller detects high spot of tire and allows matching
- ✓ Measures entire contact patch for accurate results

STANDARD

Bottom-Dead-Center Laser



- ✓ Speeds tape-weight placement
- ✓ Improves accuracy

Printer Option



- ✓ Prints service report
- ✓ Explain results to customers



PATENTED

SmartWeight®



- ✓ Odometer tracks savings
- ✓ Minimizes weight usage
- ✓ Maximizes productivity

PATENTED

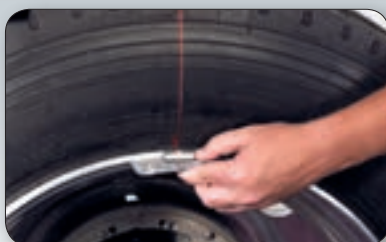
CenteringCheck®



- ✓ Ensures proper centering
- ✓ Eliminates setup errors

PATENTED

HammerHead® Option



- ✓ Speeds clip-weight placement
- ✓ Improves balance

Dataset® Arms



- ✓ Auto-select balancing mode
- ✓ Perform runout measurement on rim

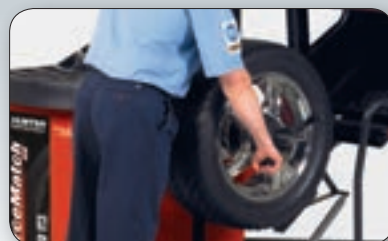
STANDARD

Wheel Lift



- ✓ Easily lifts wheel assemblies up to 500 lbs
- ✓ Aids proper mounting

Balance Any Size Wheel

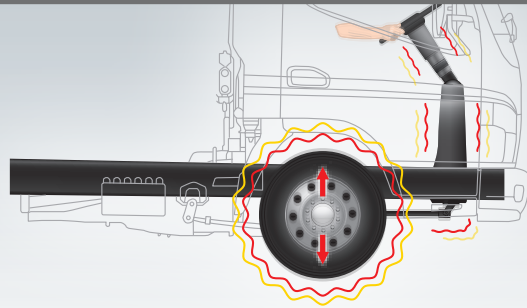


- ✓ Services cars and light trucks
- ✓ Uses standard adaptors

ForceMatch[®] helps eliminate wheel-related vibration

step 1 An Unknown Force Vibrates the Spindle

Customer complains about strong vehicle vibrations.

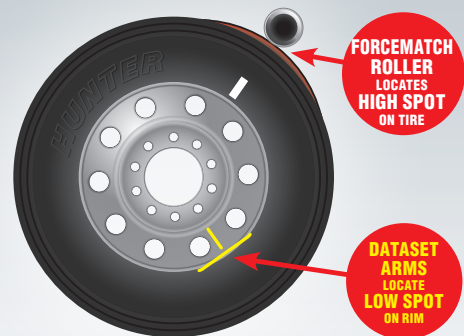


Vibration is transferred from the wheel, through the steering column to the customer.

step 2 Specialized Sensors Measure the Assembly



The ForceMatch HD balancer quickly measures runout (eccentricity) of a tire and wheel assembly.

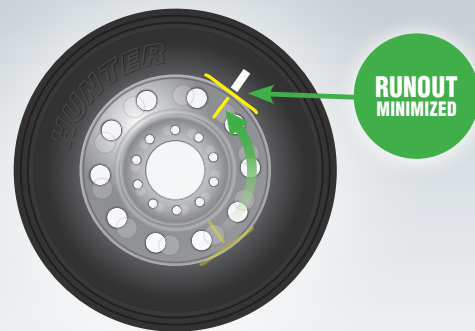


The roller measures the entire contact patch of the tire, detecting if the assembly is out of round.

step 3 Match-Mounting Cancels the Vibration



Match-mounting the high spot on a tire to the low spot on a rim makes the assembly roll as smoothly as possible.



Runout-related vibration is minimized, ensuring your customer a smoother ride.

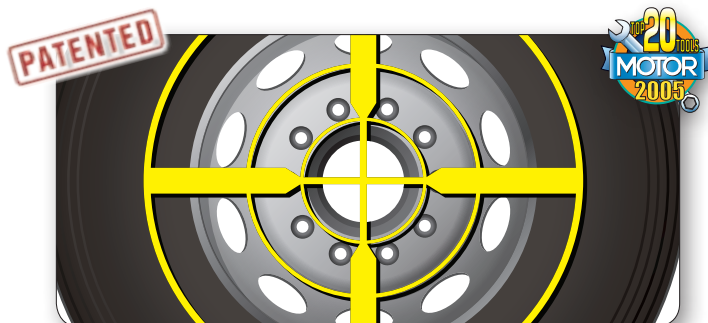
Exclusive features make balancing faster and easier



Balance any size wheel

Service passenger-car, light-truck and heavy-duty assemblies with one balancer.

✓ **Generate more business, higher profits**



CenteringCheck®

Balancer will tell you if the wheel is properly centered before you proceed with the work.

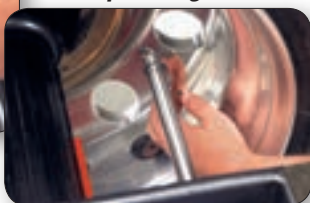
✓ **Eliminate the #1 cause of comebacks**

PATENTED



Up for clip-weight mode...

... down for tape-weight mode

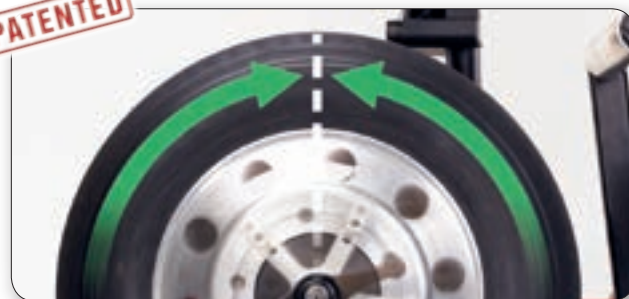


Automatic Mode Detection

Eliminate the need to select the balance mode and reduce service time and possible mode entry errors.

✓ **No need to push buttons**

PATENTED



Servo Stop Drive Control

Automatically rotates and holds wheel at top-dead-center or bottom-dead-center weight locations.

✓ **Saves time and increases accuracy**

PATENTED



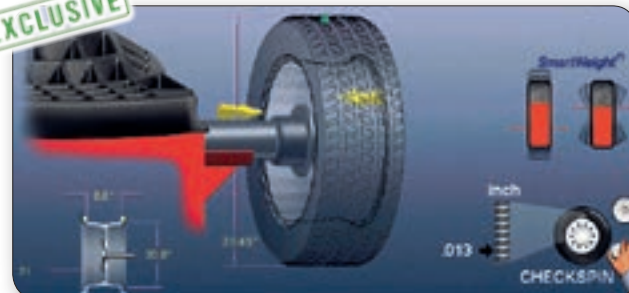
If you wish to start a calibration check spin, press "START" again.
(Calibration weight must be installed on the faceplate)

Quick Cal-Check®

Quickly verify balancer calibration in seconds.

✓ **Ensures proper calibration**

EXCLUSIVE



High-Spot Detection

Match dual wheels to improve tire wear.

✓ **Save money on tires, improve ride quality**

Exclusive features *continued...*

STANDARD



Integrated Wheel Lift

Easily lifts the heaviest wheel assemblies for effortless mounting on the balancer.

- ✓ *Precisely centers all wheels*

STANDARD



Bottom-Dead-Center Laser

Automatically locates and positions wheel at bottom-dead-center for adhesive weight application.

- ✓ *Pinpoint your weight locations to avoid weight chasing.*

PATENTED

SmartWeight® reduces labor costs and service time

- ✓ Minimizes weight usage
- ✓ Maximizes productivity
- ✓ Reduces labor costs
- ✓ Performs a better overall balance

Saves Labor Time

SmartWeight reduces "floor-to-floor" cycle time on more than 30% of wheels balanced by optimized use of a single weight to achieve the best possible balance.



Typical Correction
✓ Double Weight

SmartWeight Correction
✓ Single Weight

View your savings **LIVE!**



- ✓ Track your weight savings

Watch your investment grow

SmartWeight Savings			
Lifetime Savings			
Material Savings		Labor Savings	
Ounces	19,343.9	Minutes	2,560.2
Pounds	1,209.0	Hours	42.7
Boxes (mixed)	635.0		
Savings	\$6,792.91	Savings	\$512.05
Total		\$7,304.96	

- ✓ See weight and labor savings based on **your** shop's numbers

EXCLUSIVE

Concise TPMS information for passenger-car service

- ✓ Complicated procedures made simple
- ✓ Eliminate reference manuals



Recall procedures by VIN with barcode scanner (sold separately).



Present TPMS info to customers through internet-connected computers.

TPMSpecs



Popular equipment accessories

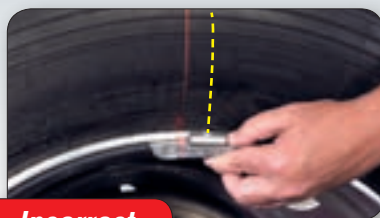
HammerHead® Top-Dead-Center Laser



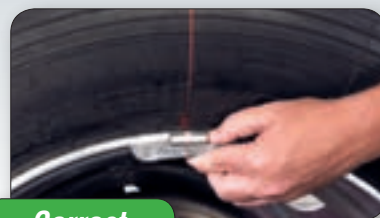
PATENTED



- ✓ Greater weight placement accuracy to avoid mistakes
- ✓ More single-spin balances improve productivity and shop profitability
- ✓ Overhead fluorescent light illuminates work area



Incorrect



Correct

Color Printer*



- ✓ Help sell premium service
- ✓ Explain results to customer



Convenient Storage Options

Adaptor tree conveniently stores oversized balancer accessories.

STANDARD



* Printer model may vary from pictured



Available as a field-installed option.

Specifications



FM03 shown

Power requirements

196-253V, 10 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)

Air supply requirements

100-175 psi (7-12 bar)

Capacity

Rim width 1.5 - 19.5 in. (38 - 495 mm)

Rim diameter 10 - 30 in. (254 - 762 mm)*

ALU 7.5 - 38 in. (191 - 965 mm)*

Auto Inside Dataset® range 10 - 30 in. (254 - 762 mm)

Max. tire diameter 52 in. (1321 mm)

Max. tire width 19.5 in. (495 mm)

Max. tire weight 500 lbs. (227 kg)

Min. tire diameter for roller application 26 in. (660 mm)

Imbalance resolution

± 0.05 oz (1.0 g)

Placement accuracy

512 positions, ± 0.35°

Balancing speed

100 rpm

Motor

Programmable drive system and DC motor

Shipping weight

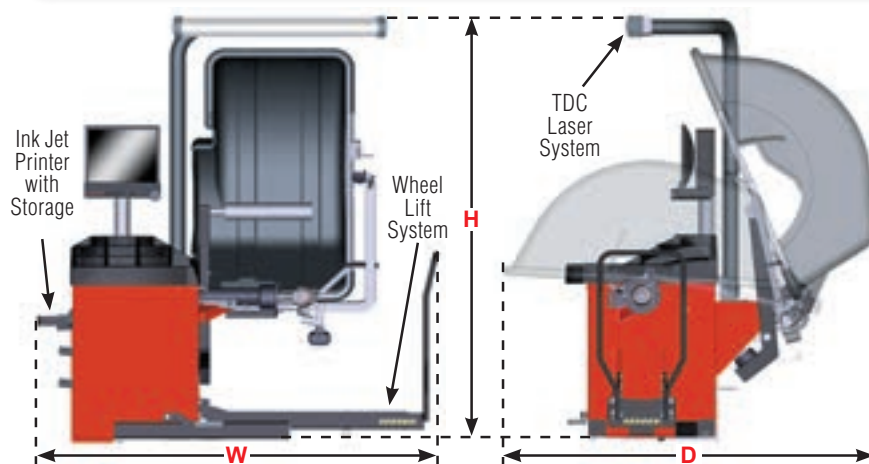
832 lbs. (377 kg)

* Extreme wheel sizes may require manual data entry.

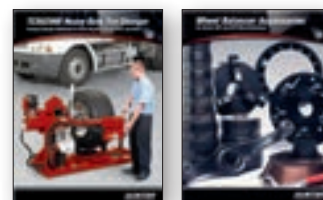
Models

MADE IN USA
HUNTER ENGINEERING COMPANY ST. LOUIS, MO

	FM03	FM02	FM01	FM00
Wheel Lift System	✓	✓	✓	✓
TDC Laser System	✓	✓		
Ink Jet Print w/Storage	✓		✓	
Width (W)	77 in 1956 mm	69 in 1753 mm	77 in 1956 mm	69 in 1753 mm
Height (H)	86.5 in 2197 mm	86.5 in 2197 mm	81 in 2057 mm	81 in 2057 mm
Depth (D)	73 in 1854 mm	73 in 1854 mm	73 in 1854 mm	73 in 1854 mm



Because of continuing technological advancements, specifications, models and options are subject to change without notice.



Be sure to check out other Hunter literature for more quality products from Hunter Engineering.



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